

HIGHLIGHTS OF ACCOMPLISHMENTS

2011-2015

LOOKING FORWARD TO 2016-2021

Columbia County Land & Water Resource Management Plan
5 Year Extension Request

SWRM STAFFING GRANTS \$651,510.00 AWARDED (DATCP)
AVERAGE \$130,302 (1.5-1.7 STAFF)

Targeted Runoff Management and NOD Grants

- 4 Small Scale (NOD & TRM) (Includes #4 NOD)
(\$1.7 million Awarded)
- 2 Large Scale TRM
(\$891,000 Awarded)
- \$1,126,942 Allocated (2011-2015)
- Total Awards \$2.6 million

Land & Water Resource Management Cost Sharing (SWRM)

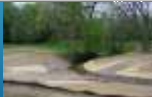
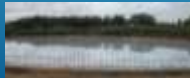
- \$494,655 Bond & SEG Funds Allocated
(2011-2015)
- Cumulative Underspending @ 1%
- 20-30 Landowner Projects Per Year



SUMMARY OF BMP'S (2011-2015)

- 80 Individual 590 NMP Plans 30,136 Acres
- 4 Diversions
- 12 Roof Runoff/Underground Outlet Systems
- 11 Grassed Waterway Systems
- 37 Well Abandonments
- 6 Waste Transfer Systems
- 1 Waste Treatment Leachate Control System
- 11 Manure Storage Systems
- 6 Manure System Abandonments
- 8 Barnyard Runoff Control Systems
- 4 Livestock Exclusion Fencing Systems
- 8 Access Roads/Cattle Crossings/Trails
- 9 Heavy Use Protection
- Critical Area Stabilization
- 6 Shoreline Protection/Restoration
- 1 Grade Stabilization Structure
- 2 Livestock Watering Facility

Total of 131 BMP's Engineered
Combined Total 211 BMP



ANIMAL WASTE STRUCTURE PERMITS (ORDINANCE)

- 29 New NRCS 313 Manure Storage Structures Permitted
- Design Services/PE Reviews
- 11 Manure Storage Structure Closures

NUTRIENT MANAGEMENT PLANNING COVERAGE

- 2011 (22,862 Acres) 7.7%
- 2015 (132,740 Acres) 45%

NUTRIENT MANAGEMENT FARMER EDUCATION (NMFE)

- 2013/2014/2015 NMFE Grants
- \$27,676 Grant Funds Used
- 48 Landowners Updated/Completed
Plans 16,985 Acres
- 2011/2012 Done Without Availability
of Funds

GRAZING GRANTS (GLCI) TECHNICAL ASSISTANCE

- Awarded 2011/2012/2013/2014 (\$21,304)
- Worked with 36 Landowners
- Developed MIG Plans or Mods on 1500 acres
- Installed 36 Supporting BMP's

NRCS Technical Service Provider

- 2011/2012 TSP Contract with NRCS
- \$9,018.00
- EQIP Technical Assistance

FARMLAND PRESERVATION PROGRAM PARTICIPATION

- 2015 FFP Plan Recertification
- 2014 Recertified Exclusive Ag Zoning District County (18 Townships)
- 2014 Recertified Town of Courland Zoning District
- 2 Township No Zoning (22 Active FFP Agreements)
- 710 FFP Claims Filed in 2014 \$978,232 Tax Credits
- 896 Eligible Landowners in our System
- LWCD Developed LRS Based Tracking System 2014
- 2010-2015 Working on Issuance of Schedules of Compliance & Certificates of Compliance (Heavy Workload)
- Proven To Be NR 151 Conservation Compliance Tool
- 2014 Approval of West Point AEA (18,000 Acres)

TREE & SHRUB SALES PROGRAM

- 188,000 Sold (2011-2015)
- \$27,000 proceeds (I/E)
- 1.2 Million Since 1981
- Tree Planters 5 Rented Out



GROUNDWATER FOCUSED PROGRAMMING

- 2007–2010 Drinking Water Sampling Program 600+ Wells
- 25% of Wells > Nitrate Standard (Vulnerability)
- Public Use Wells Impacted
- Knowledge is Power – Development of Columbia County G-Flow Model
- Updated Bedrock Geology, Elevations & Flow Patterns
- Columbia County Investment \$190,538
- Federal Grant \$100,000 (WGNHS)
- Model Completed End of 2013
- Model Use 2014 and 2015



SURFACE WATER FOCUSED PROGRAMMING

- Connecting NPS Resource Issues To Water Bodies
- Began Approach in 2001 (DNR Lake Planning/Protection and River Planning Grants)
- Water Quality Monitoring Data & Flow
- Watershed Inventories (NR 151 Compliance)
- Lake Management Plans, Aquatic Plant Management Plans, Shoreline Stabilization and Habitat Restoration Plans
- Park Lake, Lazy Lake, Swan Lake, Tarrant Lake & Lodi Spring Creek
- (2011–2015) \$84,000 in Grant Awards
- 3 Completed DNR Approved Lake Management Plans/2 Approved DNR Aquatic Plant Management Plans
- Targeted NR 151 Compliance Work With Inventoried Agricultural Producers



CONSERVATION AIDE GRANT PROJECTS

- \$14,023 Awarded Since 2011
- 50% Local Match
- Supplemental Funds
- Fish Stocking, Invasive Species Control, Trout Habitat Work, Boat Ramps, Disabled Blinds, Etc.



CREP

- 44 Landowner Agreements Covering 320.80 acres



INFORMATION & EDUCATION (I&E)

- Annual Poster Contest 150 Participants
- Annual Speaking Contest 84 participants
- Annual Fall Conservation Tour (County Board, Media, Citizens and Partners)
- Manure User Group
- Town Hall Special Topic Meetings
- 6 Time per year Ag Reporter Newsletter
- Website



Accomplishments 2011–2015 Columbia County

Land & Water Resource Management Plan

Goal: Protect And Enhance Groundwater Quality/Quantity

Objectives	Actions	Accomplishments
Proper abandonment of unused groundwater wells	Provide technical assistance and cost sharing to close 5 to 10 wells per year	<ul style="list-style-type: none"> • 37 Well Abandonments Completed • 7.4 Average per year
Understand Groundwater resources to the fullest extent possible	Complete Phase 2 and Phase 3 of Columbia County groundwater survey and flow model development in cooperation with WGNHS	<ul style="list-style-type: none"> • \$190,538 County Investment In G Flow Model • \$100,000 Federal USGS Grant Bedrock Geology • 2009–2010 Elevations, Recharge & Susceptibility • 2011–2013 Completion Of G Flow Model Columbia County (Bedrock Geology Mapping) • WGNHS Major Partner (Controls Model)

Accomplishments 2011–2015 Columbia County

Land & Water Resource Management Plan

Goal: Protect And Enhance The Quality Of Our Surface Water, Groundwater And Soils Resources

Objectives	Actions	Accomplishments
Notify identified landowners of NR 151 status and identify problems and associated BMP's needed	Follow up on NR 151 inventory results with 10 to 15 landowners per year inventory work will be used for searching out cost share mechanisms if needed (TRM, LWRM)	<ul style="list-style-type: none"> • Use Existing Inventory Data • FPP Spot Checks Field & Self (200#) • Manure/Runoff Related Complaints (10–15 year) ➢ 20 Onsite Determinations per year via all mechanism
Require compliance through NR 151 notification of non-compliance and make offer of cost sharing	Work with 8 to 5 livestock owners per year to achieve compliance with NR 151 Standards, the number of projects actually implemented through this process will be extremely dependent on cost share availability	<ul style="list-style-type: none"> • 14 (Small Scale) TRM/NOD (4) Projects • 2 (Large Scale) TRM Projects • 20 Landowner NR 151 Issues Target via TRM • LWRM Funding 20 Landowners NR 151 • 580 Landowners NR 151 Compliance With 590 NMP Plan Development • Total 120 Landowners NR 151 Compliance

Accomplishments 2011–2015 Columbia County Land & Water Resource Management Plan <i>Goal: Protect And Enhance The Quality Of Our Surface Water, Groundwater And Soils Resources</i>		
Objectives	Actions	Accomplishments
Implement NMP 590 Standards In NR 151, with livestock operations being high priority	In the absence of limited GFR dollars to provide cost sharing to landowners to implement the NMP 590 standards found in NR 151 we will do the following: Encourage landowners to sign up for EQIP, require plans through local manure storage ordinance, require compliance with FFP(WLJ) standards and conduct landowner self-certification training for 590 plan development. Despite dedicated funding we would like to target 5000 to 8000 acres as a goal per year.	<ul style="list-style-type: none"> 296,000 Cropland Use 60% Or 495,000 2011 22,862 Acres Certified 590 Plans 2015 132,740 Acres Certified 590 Plans 109,978 Acre Increase 7.7% up to 45% Cost Shared 80 Plans (30,136 Acres) NMFE 48 Farmer Developed (16,985 Acres) Increased Compliance With Animal Waste Ordinance Permit Requirements FP Eligibility Landowner Motivations April 15 Deadline For Annual Updates
Update local policies and procedures related to Animal Waste Management	Revise and update current Animal Waste Management Ordinance to include Water Quality Management and incorporate policies and procedures to implement most current revisions to NR 151 and ATCP 50.	<ul style="list-style-type: none"> Ordinance Update Discussion & Approach Ongoing MOU with DNR? Full Standards Or Partial 2016 County Goal For Consideration

Accomplishments 2011–2015 Columbia County Land & Water Resource Management Plan <i>Goal: Protect And Enhance The Quality Of Our Surface Water, Groundwater And Soils Resources</i>		
Objectives	Actions	Accomplishments
Continue the promotion of rotational grazing within Columbia County	Continue to use GLGI Grazing Grants to access funds associated with technical time to continue current upswing in rotational grazing use in Columbia County. Make staff technical resources available to service landowners need RMP and or grazing plan development. Annual target of working with 5 landowners and a goal of revisiting or planning 250 acres per year.	<ul style="list-style-type: none"> GLGI Grants 2011–2014 \$21,804 Technical Staff Support 56 Landowners Served 1,800 Acres MG Or MCHN To Plans 56 Supporting RMP's To Grazing Systems RMP \$ Assistance thru LWRM or EQIP Lower Cost Alternatives To NR 151 Compliance Issues Very Important To Target Limited technical resources (Staff) 12 Manure Storage Structures Closed
Abandon existing unused nonconforming manure storage structures	Locate and properly abandon 2 existing non used nonconforming manure storage structures annually.	
Revisit the value of grassed waterways as a "must have" tool for erosion control	The LWCD will continue to market the value of grassed waterways through information and education with local landowners. We will work towards the installation of a minimum of 5 new or replacement grassed waterways per year.	<ul style="list-style-type: none"> 11 LWRM 18 EQIP 10 CRP Total 39 grassed waterways

Accomplishments 2011–2015 Columbia County Land & Water Resource Management Plan <i>Goal: PROVIDE INCREASED LAND AND WATER CONSERVATION SERVICE TO LANDOWNERS AND CITIZENS OF COLUMBIA COUNTY</i>		
Objectives	Actions	Accomplishments
Increased customer service and conservation program implementation through the co-habitation of the LWCD with the NRCS and FSA office	The LWCD/LWCC will look into the feasibility of making this partnership a reality again. We will provide information and education to the Columbia County Board in regards to the necessity of such an arrangement.	<ul style="list-style-type: none"> Co-Location high priority for 2011 steering committee Columbia County building new building 2017 NRCS-FSA space included in specs One stop shop.

2016–2021 Updated LWRMP Work Plan Highlights	
<ul style="list-style-type: none"> Utilization Of Columbia County G-Flow Model <ul style="list-style-type: none"> Capture Zones Well Head Protection (BMP's) High Cap Well Relationships Explore 2nd Round of Drinking Water Educational Programming Continued Development of Tracking Data Base (BMP/Nutrient Reductions) Relationship of AM/Trading/MDV-P/TMDL & 9 Key Element Programming FFP Compliance Workload (CCC #s) Animal Waste Management Ordinance Revisions (MOU DNR) Surface Water Resource Planning Focus on Manure Storage/Alternatives (All Year) 	



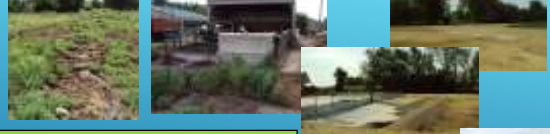
BENISH 2012 BARNYARD RUNOFF PROJECT



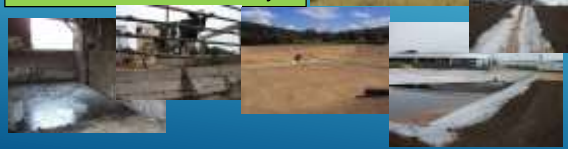
WITT 2012 SHORELAND PROJECT



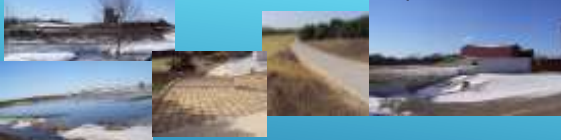
FENSKE 2013 BARNYARD RUNOFF PROJECT



HELLENBRAND STORAGE 2013 PROJECT



HAHN 2014 BARNYARD RUNOFF PROJECT



HENDRICKSON 2014 BARNYARD RUNOFF PROJECT



HEALY 2015 BARNYARD RUNOFF PROJECT



PARK LAKE 2015 SHORELINE PROJECT



QUESTIONS?